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Revenue.

1181. *Schemes in the II Five Year Plan* :—The year, 1959-60 was the fourth year of the II Five-Year Plan. The progress secured on schemes during the four years commencing from 1956-57 was that as against the plan provision of Rs. 738·42 lakhs an expenditure of Rs. 470-99 lakhs was incurred, leaving a balance of Rs 268 lakhs to be worked out during the year 1960-61.

1182. The revenue realised during the year under Civil Works was Rs. 86,95,135 on account of rents, ferry receipts, recoveries of expenditure, transfer from Central Road Fund, Subvention from the Government of India, miscellaneous items, etc.

(ii) Major Irrigation Projects (P. W. D.), Munirabad.

1183. *Tungabhadra Project* :—High pressure grouting to the drainage gallery of the dam and special revetment works were carried out. The main canal was almost completed up to mile 65 and water let out. The earth work in mile 65 to 69 was completed. Lining the canal in miles 48 to 65, 67 and 68 was also completed. The R. C. C. Aqueduct in mile 69 of the main canal across Muski Nala, costing about Rs. 30 lakhs was nearing completion.

1184. Water was made available for an area of about 1,98,000 acres with water courses up to one cusec on the left bank in Raichur District, out of which, about 50,000 acres were actually developed and irrigated. On the right bank in Bellary District, water was made available to 79 232 acres, as against the irrigable and localised ayacut of 92,345 acres, but only 48,500 acres were developed and irrigated.

1185. *Development of area under Tungabhadra* :—The T. B. P. and Ghataprabha I Stage, taken up as a protective measure in the scarcity areas of the State, were completed. Government provided a sum of Rs. 225 lakhs to be spent during the 2nd Plan Period on various development works. In the Budget for 1959-60, a sum of Rs. 40 lakhs was provided. Of this, Rs. 39 lakhs were earmarked for the development of the area under T. B. P. and there maining for Ghataprabha Project.

1186. During the year 1,164 demonstration plots were laid out. Four hundred acres of land were brought under

horticultural crops. A sum of Rs. 6,92,284 was advanced as loans. Twenty-eight roads were taken up for construction. The total expenditure incurred during the year worked out to Rs. 28,79,250.

1187. *Ghataprabha Project:*—The area irrigated during the year was 36,036 (20,210) acres. The area commanded by the Canal would be about 4·2 lakhs of acres with a capacity of about 2,000 cusecs at head for irrigating an extent of Rs. 2·98 lakhs acres of land. The total length would be about 150 miles.

1188. *Development of Area under Ghataprabha:*—The total expenditure incurred for the development works, was Rs. 59,858 as against the provision of Rupees one lakh. The total area irrigated during the year was 38,597 acres. Fifty demonstration plots were laid out. Five roads were taken up for construction and they were in the various stages of construction.

1189. *Bhadra Reservoir Project:*—The Bhadra Reservoir project is estimated to cost Rs. 3,353 lakhs. The total length of the Left Bank Channel is 48 miles. Out of the atchkat of 17,226 acres for which irrigation facilities were made available, about 13,768 acres of land were irrigated during the year. The total atchkat under various distributaries comes to about 36,820 acres.

1190. *Anvery Distributary:*—The length of the channel is 41½ miles and is designed to irrigate 15,247 acres.

1191. *Tunga anicut:*—The estimated cost of this is Rs. 2,31,13,000. The head works were completed but for the protective works on the right bank of the anicut which have almost been completed, except for the fourth compartment. The channels on both the banks have been in service to irrigate 21,500 acres.

1192. *Kabini project:*—The estimated cost of this project is Rs. 3,20,00,000. The work on the main dam portion was started during the year 1960. Construction of "Toe Wall" on the upstream side was completed. As an alternative to the masonry bridge below the Dam, construction of a trestle bridge was taken up and about 12 trestles were erected.

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1193. *Nugu Reservoir Project :*—The estimatedcost of this project is Rs. 3,10,68 000. The scheme envisages, construction of a Reservoir to irrigate 20,000 acres. Major portion of the project was completed and remaining works such as tract roads, rehabilitation works, etc., were in progress. The area irrigated during the year by the Nugu High Level Channel was about 14,000 acres as against the designed capacity of 20,000 acres.

Other Works.

1194. The following were the other important works that were in progress during the year.

1. Hebbakavadi branch
2. Improvements to Thauganur branch
3. Improvements to Nidigbatta branch
4. Opening Arakere branch channel from H. L. S. of Arakare branch channel.

1195. Maintenance works on the Krishnarajasagar Dam and allied channels including Visvesvaraya Canal were done during the year at a total cost of Rs. 12,33,535.

Medium Projects.

1196. *Nagathana Tank :*—The Nagathana Tank, one of the Medium Irrigation Schemes, envisages construction of an earthen dam across Kyadginalla to impound a gross storage of about 98 M. Cft. and effective capacity of 85·2 M. Cft. The estimated cost comes to 14·43 lakhs. The total area irrigable under this tank will be 1,422 acres.

1197. *Ambligola Project :*—The estimated cost of this project is 91,60,000. This Reservoir is expected to bring under cultivation an area of 7,300 acres.

1198. *Lakshmanathirtha project :*—Estimated cost of this scheme is Rs. 30,42,000, to construct two Reservoirs and two Anicuts across Lakshmanathirtha and Ramathirtha rivers, one on each, to irrigate 3,167 acres.

1199. *Hebballa Project :*—Hebballa project in Heggadadevanakote is estimated to cost Rs. 28 lakhs for construction of an earthen dam and a channel to irrigate 1,530 acres. The work on the dam was under progress during the year.

1200. *Chikkahole Project :*—The work on this Scheme, estimated to cost Rs. 46,50,000 comprises construction of a masonry dam and a channel to irrigate 3,233 acres.

Excavation of foundation for the masonry dam was under progress.

1201. In addition to the above projects, certain other projects namely Dharma Reservoir project, Kolchi Weir scheme, Ramanahalli scheme, Areshankar Tank, Kalaskop Tank, Kanakanala project, Hathikoni project, and Jambadahalla project were under various stages of progress during the year.

1202. Major projects like Harangi project, Upper Krishna project and Bhima project, were under various stages of investigation.

1203. Detailed plans and estimates were prepared for the following works:—

1. Harinala Reservoir project (Belgaum District)
2. Kadur Tank project (Raichur District)
3. Kolhar Tank project (Bijapur District)

1204. Preliminary reports had been prepared in respect of the following schemes:—

1. Rangasamudra Tank (Bijapur District)
2. Anjanal Tank project do
3. Almol Tank project do
4. Setti Nalla Scheme (Belgaum District)

1205. *Mysore Engineering Research Station*:—The development of the Research Station to cope with the increased demand for research in the evolution of safe and economical structures was taken up and accordingly the undermentioned existing branches were strengthened.

1206. (1) Hydraulics (2) Soil Mechanics including Chemical and Meteorological sections and (3) Material Testing. Besides, a Road Research wing was newly added.

1207. Studies on the following, sponsored by the Government of India, were also continued in the Research Station:

1208. (1) Canal lining, (2) Standardisation of the use of Surki and other puzzolanic materials and (3) Restriction of evaporation from open water storages using Cetyl-Alchohol.

(iii) Irrigation and Public Health.

1209. *Irrigation Works.*—Irrigation works comprise (i) Channel Irrigation drawn from anecuts or dams constructed across perennial rivers (ii) Tank Irrigation and